

ITEM	QTY	UNITS	PRICE	COST	P/N	DESC	SUPPLIER	NOTES
1	1	ea	30	\$30.00	flange_35M	adapter flange	Dixon	aluminum, machined
2	1	ea	50	\$50.00	column_short	adapter column	Dixon	aluminum, machined
3	1	ea	50	\$50.00	angled_block_45	angled block	Dixon	3D print onyx
4	1	ea	40	\$40.00	plate	adapter plate	Dixon	aluminum, machined
5	2	ea	10	\$20.00	finger_crt	finger	Dixon	3D print onyx
6	2	ea	3	\$6.00	insert_crt	finger insert	Dixon	3D print flexible
7	2	ea	50	\$100.00	attachment	attach finger to Schunk head	Dixon	aluminum, machined
8	1	ea	30	\$30.00	mounting_plate	mount DCV to robot	Dixon	aluminum, machined
9	1	ea		\$0.00	371102	PGN-plus 100-1 Universal 2-Finger Parallel Gripper, 10 mm stroke, 2.2 kg payload	Schunk	pneumatic actuator
10	1	ea	56	\$56.00	AVS-523E2-24D	NITRA solenoid valve, 5-port (4-way), 3-position, center exhaust, double solenoid, (1) 1/4in FNPT inlet(s), (2) 1/4in FNPT outlet(s), (2) 1/8in FNPT exhaust(s), Cv=0.67, 24 VDC, 3.0W, 11mm DIN style wiring plug.	Automation Direct	directional control valve
11	1	5-pk	7.5	\$7.50	ME516-18N	NITRA pneumatic push-to-connect fitting, male, elbow, rotating, thermoplastic (PBT) body, nickel-plated brass threads, 5/16in (8mm) tube to 1/8in NPT connection(s).	Automation Direct	fittings: Schunk in, need 2
12	1	5-pk	6.5	\$6.50	MSR516-14N	NITRA pneumatic push-to-connect fitting, male, round straight, nickel-plated brass body, nickel-plated brass threads, 5/16in (8mm) tube to 1/4in NPT connection(s).	Automation Direct	fittings: DCV out, need 2
13	1	5-pk	10.5	\$10.50	MS12-12N	NITRA pneumatic push-to-connect fitting, male, straight, nickel-plated brass body, nickel-plated brass threads, 1/2in tube to 1/4in NPT connection(s).	Automation Direct	fittings: robot in, need 2
14	1	5-pk	8.5	\$8.50	MS12-14N	NITRA pneumatic push-to-connect fitting, male, straight, nickel-plated brass body, nickel-plated brass threads, 1/2in tube to 1/4in NPT connection(s).	Automation Direct	fittings: DCV in, need 1
15	3	ea	1.6	\$4.80	98320A128	Zinc-Plated Steel Ring-Grip Quick-Release Pin, 1/4" Diameter, 13/16" Usable Length	McMaster-Carr	pin fingers to blocks, need 2
16	1	100-pk	8.48	\$8.48	90128A215	Zinc-Plated Alloy Steel Socket Head Screw, M4 x 0.7 mm Thread, 16 mm Long	McMaster-Carr	fasten block to column, need 6
17	1	25-pk	7.28	\$7.28	91290A330	Zinc-Plated Alloy Steel Socket Head Screw, M6 x 1 mm Thread, 25 mm Long	McMaster-Carr	fasten attachments and blocks to Schunk, flange to robot, need 12
18	1	100-pk	11.55	\$11.55	90128A219	Zinc-Plated Alloy Steel Socket Head Screw, M4 x 0.7 mm Thread, 30 mm Long	McMaster-Carr	fasten flange to column and DCV to mounting plate, need 6
19	1	100-pk	1.32	\$1.32	90592A090	Steel Hex Nut, Medium-Strength, Class 8, M4 x 0.7 mm Thread	McMaster-Carr	fasten DCV to mounting plate, need 2